

HP JetDirect Connectivity Guide



HP JetDirect Print Servers:
Intelligently Simple Network Printing

**All New
Features for
HP JetDirect Cards!**

- Internet Browser Management
- HP JetAdmin for Windows NT
- DHCP and TCP/IP Support

A solution for every printer in your network environment

The number one reason businesses install networks is to share printers. And the easiest way to attach those printers to a network is with an internal or external HP JetDirect print server. Compatible with today's most popular network operating systems, HP JetDirect print servers maximize the performance of your printers and allow you to place printers exactly where you want them.

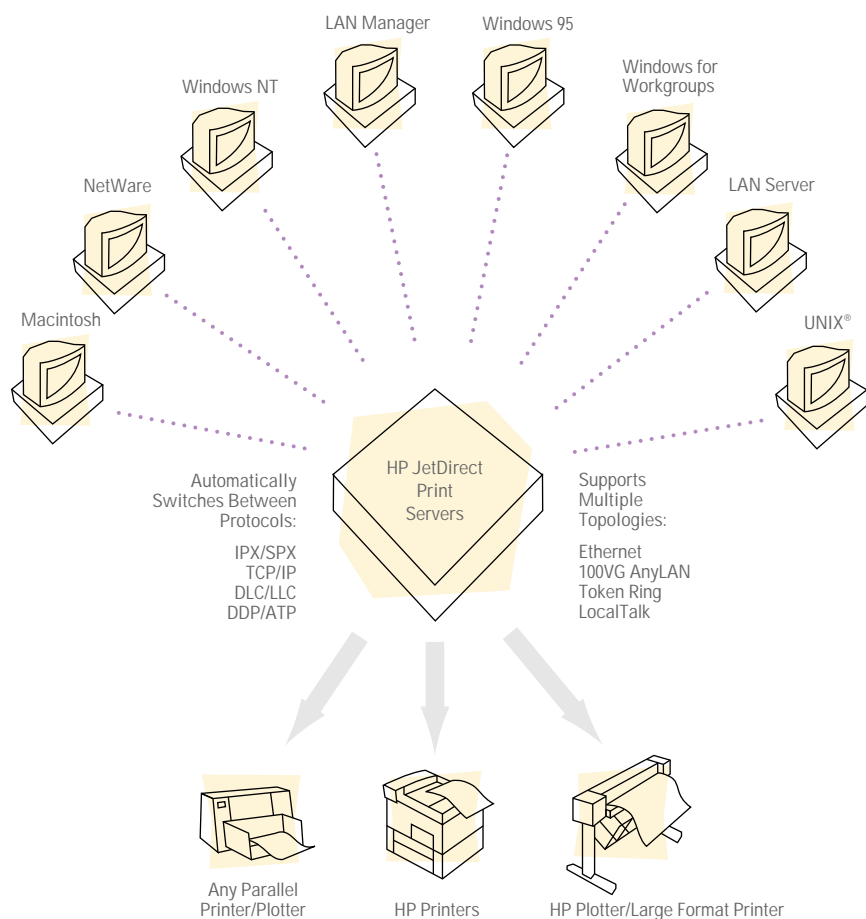
Simply select an HP JetDirect internal print server, install it in your HP printer's built-in expansion slot, and you're ready to print from anywhere on the LAN. Or turn any parallel printer (including laser, color, inkjet, and dot matrix) into a network-ready printer

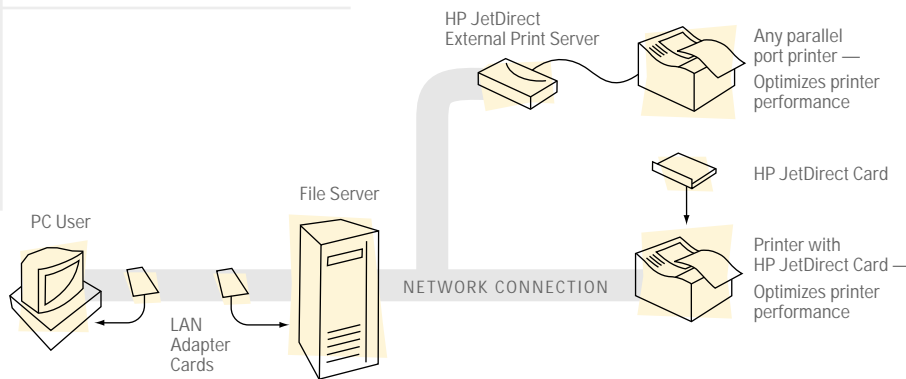
by connecting a single- or multi-port HP JetDirect external print server to the parallel port.

Used in any combination with your printers, HP JetDirect print servers and the HP JetAdmin printer management software that's included provide a seamless network printing experience. In fact, HP JetAdmin is the leading installation and configuration software for network printers, with more than four million copies in use.

Add HP JetDirect Print Servers to Any Network.

Connecting printers to your network has never been easier. Regardless of your printer type, network environment, protocol, or topology, HP JetDirect print servers let you connect printers to your network from anywhere in your office environment, allowing printers to be close to users.





Maximize Your Printer Performance.

Using a PC or file server as a print server can be slow and difficult to troubleshoot. HP JetDirect internal and external print servers eliminate potential bottlenecks so you can utilize full network speed and maximize your print throughput. HP JetDirect print servers also perform automatic network/protocol switching for simplified printing in mixed environments.

Simplify Your Print Management.



Even managing your shared printing is easier than ever. That's because every HP JetDirect print server includes powerful HP JetAdmin printer management software for Novell® NetWare®, Microsoft® Windows 95, Windows NT, IBM OS/2 LAN Server, and UNIX. The software works seamlessly with all HP JetDirect-connected printers and plotters to provide easy configuration, automatic printer driver downloading, real-time status updates, and remote diagnostic capabilities. HP JetAdmin printer management software makes users' lives easier too, offering access to real-time printer and job status information.

Together, HP JetDirect print servers and HP JetAdmin printer management software provide intelligently simple network printing.

HP JetDirect Print Servers

FEATURES	JETDIRECT CARD	JETDIRECT EX PLUS	JETDIRECT EX PLUS3
Printer support	HP with MIO slot	Any parallel printer	Up to 3 parallel printers
HP JetAdmin printer management software (included)	Yes	Yes	Yes
Internal/External	Internal	External	External
Number of simultaneous printers	1	1	3
True multi-protocol support	Yes	Yes	Yes
1 MByte flash memory	Yes	Yes	Yes
Novell NDS compliant	Yes	Yes	Yes
Novell NDPS compatible	Yes	Yes	Yes
100VG AnyLAN support	No	No	Yes
Windows NT DHCP support	Yes	Yes	Yes

HP JetDirect family of print servers

Compatible

- New!*
- **Printer management via Internet browser**
 - **Multi-protocol internal and external print servers**—ideal for shared printing in mixed-LAN environments
 - **A solution for all major network operating systems** for Ethernet, 100VG AnyLAN, Token Ring, and LocalTalk networks
 - **Fully compliant with Novell NetWare Directory Services (NDS) and supports NetWare Distributed Print Services (NDPS)**
 - **1 MByte flash memory for easy software upgrades over the network via sophisticated HP Download Manager**
 - **SNMP agents for support of industry-standard network management applications**
 - **lpd support**

Simple

*JetAdmin
now supports
Windows NT*

- **Easy to install and configure virtually any printer for direct LAN connectivity**
- **Included with all JetDirect print servers, powerful HP JetAdmin printer management software for Novell NetWare, Microsoft Windows 95, Windows NT, IBM LAN Server, and UNIX enables LAN administrators to remotely configure, monitor, and manage all HP JetDirect-connected printers** (Printer management software for other environments is also available)
- **Choice of protocols with HP JetAdmin printer management software for Windows NT**
- **DHCP support for easy configuration of IP network**
- **Automatic driver installation, printer configuration, and remote printer status on your PC screen**
- **Automatic network/protocol switching for simplified printing in mixed environments**

Fast

- **Better overall printing performance than PC print servers, file server connections, and PC parallel-port connected printers**
- **External print servers feature high-speed IEEE 1284 compliant parallel ports**
- **Eliminate PC parallel port bottlenecks with throughput up to 350 KBytes/s and reduce demands on network servers**

Proven HP Reliability

HP JetDirect Cards

for Ethernet, Token Ring, and LocalTalk networks

Connect any network-ready HP printer to your network:

- HP LaserJet 5Si, 5Si MX, 4Si, 4Si MX, 4V, 4MV, 5, 5N, 5M, 4 Plus, 4M Plus, 4, and 4M printers, and 5Si Mopier
- HP Color LaserJet 5 and 5M Color LaserJet printers
- HP DeskJet 1200C, 1200C/PS, 1600C, and 1600CM printers
- HP DesignJet 600, DesignJet 650C, DesignJet 750C plotters, and DesignJet 650C/PS, 700, 750C Plus, and 755CM printers
- HP CopyJet and CopyJet M printers/copiers



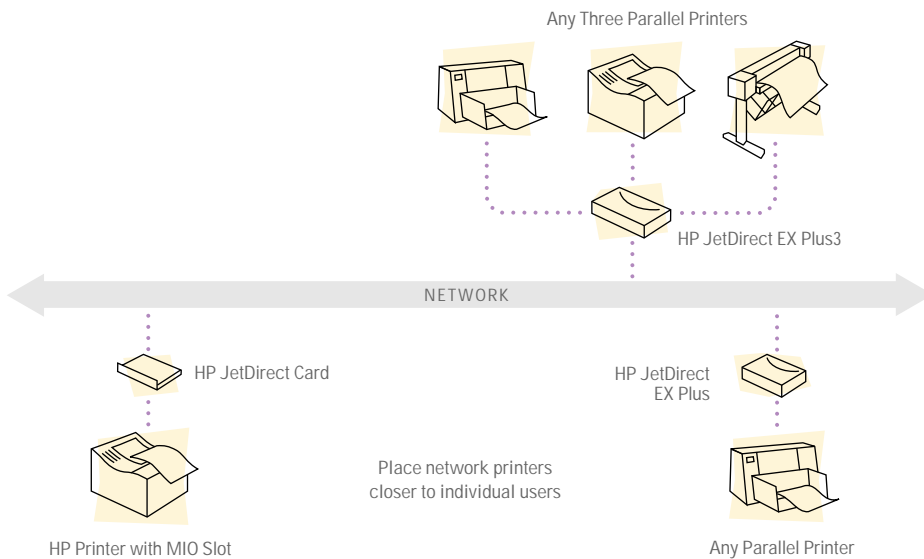
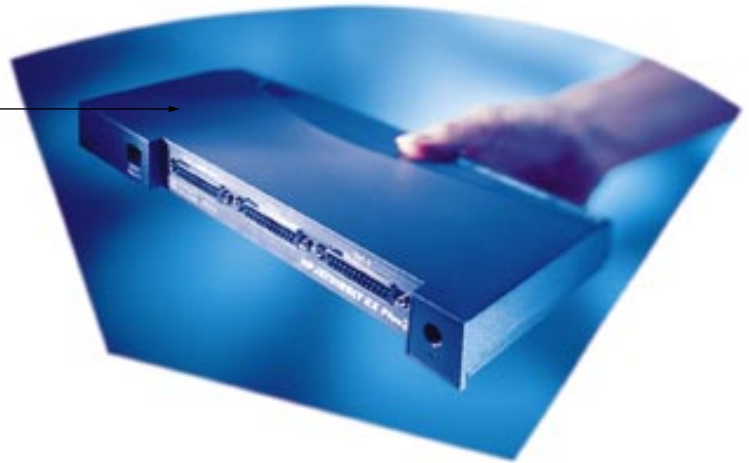
**All New
Features for
HP JetDirect Cards!**

- Internet Browser Management
- HP JetAdmin for Windows NT
- DHCP and TCP/IP Support

HP JetDirect EX Plus3 Print Servers for Ethernet, 100VG AnyLAN, and Token Ring networks

Connect up to three parallel printers to your
workgroup at network speed including:

- Laser
- Inkjet
- Dot Matrix



Maximize Printer Locations on Your Network.

With HP JetDirect print servers you can place
printers anywhere on the LAN, allowing
printers to be close to the users. It's one more
way Hewlett-Packard makes network printing
work for you.

A Network Color Printing Solution is Now More Affordable Than Ever.

When used with an HP JetDirect EX Plus print
server, the new HP DeskJet 870C Professional
Series printers deliver fast, high-quality
color inkjet printing that can be shared over
the network.



HP JetDirect EX Plus Print Server for Ethernet networks

Connect any single parallel printer to
your network at network speed including:

- Laser
- Inkjet
- Dot Matrix

JetDirect print servers are the easiest way to connect printers to your network








There's no better time to take advantage of HP's network printing solutions. Refer to Table 2, and call the HP FIRST fax service at 1-800-333-1917 to receive information about the specific HP JetDirect print server that matches your network and printer configuration.

For more information, call the HP FIRST fax service: 1-800-333-1917.

2		
HP FIRST Fax Service		
Printer Connection	Network Platform	Ask for Document ID #
HP JETDIRECT CARDS		
See Table 1 at right for listing of HP Printers	Ethernet/Token Ring/LocalTalk	7393
HP JETDIRECT EX PLUS3 PRINT SERVERS		
Up to three printers with a parallel port	Ethernet/100VG/Token Ring	7694
HP JETDIRECT EX PLUS PRINT SERVER		
Any parallel printer	Ethernet	7569
HP JetDirect TCP/IP Solutions		7697
HP JetDirect Upgrade Solutions		7695
Electronic Download Instructions for HP JetAdmin Printer Management Software		7398
HP JetDirect Flash Download Manager		7394
HP JetDirect/Netware 4.x Implementation		7696
HP JetAdmin Printer Management Software for Windows 95		7445
HP JetDirect/Windows 95 Implementation		10133
XXCAL Print Server Performance Test Summary		10068
HP JetDirect Connectivity Guide (this guide)		7349
HP JetDirect Firmware Images		7485

1	
Ordering Information	
HP Peripheral	Product Number
HP JETDIRECT CARDS	
HP LaserJet 5Si, 5Si MX, 4Si, 4Si MX, 4V, 4MV, 5, 5N, 5M, 4 Plus, 4M Plus, 4, and 4M printers, 5Si Mopier	J2550B
HP Color LaserJet 5 and 5M, Color LaserJet printers	J2552B
HP DeskJet 1200C, 1200C/PS, 1600C, and 1600CM printers	J2555B
HP DesignJet 600,** 650C, 750C plotters, and 650C/PS, 700, 750C Plus and 755CM printers	J2555B
HP CopyJet and CopyJet M printers/copiers	J2555B
HP JETDIRECT EX PLUS3 PRINT SERVERS	
HP LaserJet, HP DeskJet, HP DesignJet, or up to three printers with a parallel port	J2590A
	J2593A
	J2594A
HP JETDIRECT EX PLUS PRINT SERVER	
HP LaserJet, HP DeskJet, HP DesignJet, or any other printer with a parallel port	J2591A



		NETWORK OPERATING SYSTEM (PROTOCOL) SUPPORT									
		Novell NetWare v3.11, 3.12, 4.0, 4.1 (IPX/SPX) Novell NDS and NDPS (IPX/SPX)	Windows 95 Networking (IPX/SPX)	Windows NT v3.5, 3.51, 4.0 (TCP/IP), (DLC, LLC), (IPX/SPX)	Windows for Workgroups v3.1, 3.11 (DLC/LLC)	Microsoft® LAN Manager v2.0C, 2.1, 2.2 (DLC/LLC)	IBM LAN Server v1.3, 2.0, 3.0, 4.0 (DLC/LLC)	HP-UX v9.x, 10.x; Solaris v2.3, 2.4, 2.5; SunOS v4.1.3, 4.1.4; SCO™ UNIX V/386 V3.2, 4.2, 5.0* IBM AIX V3.2.5 and later* (TCP/IP)	lpd	Apple EtherTalk System 7	Artisoft LANtastic with PowerSuite (DLC/LLC)*
HP JetDirect Print Servers	Network Type/Port										
	Ethernet/802.3 RJ-45 (10Base-T)	•	•	•	•	•	•	•	•	•	•
	Ethernet/802.3 BNC (Thin Coax) RJ-45 (10Base-T) LocalTalk System 7	•	•	•	•	•	•	•	•	•	•
	Token Ring/802.5 DB9, RJ-45	•	•	•	•	•	•	•	•		•
	Ethernet/802.3 or 100VG/802.12 RJ-45 (100VG or 10Base-T)	•	•	•†	•†	•†	•†	•	•	•***	•†
	Ethernet/802.3 BNC (Thin Coax) RJ-45 (10Base-T)	•	•	•†	•†	•†	•†	•	•	•***	•†
	Token Ring/802.5 DB9, RJ-45	•	•	•†	•†	•†	•†	•	•		•†
	Ethernet/802.3 BNC (Thin Coax) RJ-45 (10Base-T)	•	•	•	•	•	•	•	•	•***	•

* Software is provided directly by operating system vendor. For other operating systems, refer to HP First Document ID # 7697.

** Apple LocalTalk/EtherTalk are not available on the HP DesignJet 600 plotters.

*** Apple EtherTalk is supported only with HP Bi-Tronics-based peripherals.

† The DLC/LLC protocol is supported on port one.

Information on the World Wide Web.

Product literature, frequently asked support questions, and other information is available on HP's Network Connectivity Home Page:
http://www.hp.com/go/network_city



Hewlett-Packard peripherals and personal computers are available at authorized HP dealers worldwide. In North America, call toll free for the authorized HP dealer nearest you:

United States:
1-800-752-0900 or 1-800-LASERJET

Canada:
905-206-4725

For information outside North America, call the local HP sales office listed in your telephone directory or contact any of the HP regional offices below:

Europe/Africa/Middle East:
Hewlett-Packard S.A.
150, Route du Nant-d'Avril
CH-1217 Meyrin 2
Geneva, Switzerland
For Europe: 41 (22) 780-8111
For Middle East/Africa: 41 22 780 41 11

Japan:
Yokogawa-Hewlett-Packard Ltd.
15-7 Nishi Shinjuku 4 Chome
Shinjuku-ku
Tokyo 160, Japan
(03) 3331 6111

Latin America:
Hewlett-Packard
Latin America Region Headquarters
Monte Pelvoux No. 111
Lomas de Chapultepec
11000 Mexico, D.F.
(525) 326-4044

In Asia Pacific, please call the local HP sales office or representative nearest you:

Australia:
613-272-2895

New Zealand:
649-357-2000

Singapore:
65-291-9088

Malaysia:
603-298-6555

Hong Kong:
852-599-7070

Taiwan:
886-02-712-0404

Korea:
822-769-0114

India:
911-463-2379

China:
861-505-3888

Thailand:
662-254-6720


Warranty

HP JetDirect Cards have a one-year, return-to-HP warranty. HP JetDirect EX Plus and HP EX Plus3 Print Servers have a three-year, return-to-HP warranty. If an HP JetDirect Card is bundled or installed in a printer with an on-site warranty, the HP JetDirect Card assumes the same warranty as the printer.

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